TMAPC3783CEZZ

SHARP CV-2162SCN

PWB-A
DUNTK7060DE02

PWB-B
DUNTK2421DE39

DUNTK7062DE

CRT VB51JAR43 X/XS

CRT SOCKET SOCVD833CE

DY CILHI485CE

H.V

TO PWB-A CONNECT (F)

VSP1208P-10WA X2 (16Ω)

SP1

SP2

(K)

(S)

(H)

(MB) TINT N 4.43 PAL 60 PAL 50 SECAM

(SC) GND VIDEO IN +12V GATE P/N KILLER CRON OUT

(MC) GND VIDEO MUTE

Q205 2SC3402

Q803 2SC3399

IC301 (PRDAR5052CEZZ) IX0250CE

OVER VOLTAGE PROTECTOR

HEAT SHUT-OFF

Q1009 2SC3198-G

Q1005 2SC3198 -G

Q852 2SC2229(O)

Q853 2SC2229(O)

Q851 2SC2229(O)

TP852 P0101CE

B-DRIVE

G-DRIVE

B-BIAS

G-BIAS

R-BIAS

Q202 2SC3198-G

Q606 2SC2236(Y)

Q302 2SC3198-G

Q301 2SC3198 -G

Q303 2SC3198-G

Q614 2SC340

Q610 2SC3

Q402 2SA12 66 (Y)

Q801 2SC3198-G

Q407 2SC3399

Q403 2SC3198 -G

Q404 2SC3198-G

Q306 2SC3198-G

Q406 2SC3402

Q802 2SC3198-G

Q001 2SC3125

Q02 2SC2412K

Q03 2SC2412K

IC401 LA7016

IC202 IX0203GE

IC801 IX0713CENI

ICO1 IX0711CENI

TUNER VTUVTS5602

RIFU-0006CEZZ

TO 4 DECODER & BAND SW

FM DET AFT LIMITTER VIDEO DET NOIS INV RF AGC IF AGC SOUND ATT AUDIO OUT AF AMP ATT VIF AMP VIF AMP

AFT DET T03 CILI385IVA

P-DET T02 CILI3819VA

S-DET T01 CILI385 OVA

CF01 FILC0143CE (5.5MHz)

CF02 C0020CE (5.5MHz)

CF03 FILA0025CE (12.0MHz)

SF01 FILC0073CE (38.0MHz)

CF204 FILC0024CE (6.5MHz)

T802 CILZ0439CE

T801 CILV0122CE

DL801 CILZ0475CE

DL401 Z0556CE

X801 CRSB0084CE

L803 8.2μH (DF)

L402 3.3μH (DF)

L201 12μH (DF)

L301 3.3μH (CF)

L305 3.3μH (CF)

L851 680μH (CF)

L02 .68μH

L04 12μH

L05 2.7μH (DF)

L06 15μH (DF)

L20 12μ (DF)

L40 3.3μ (DF)

L802 12μH (DF)

D01 VHEHZS2C2 (3V)

D3 06

D201

D216 EX0341GE (2.2V)

D217

D301

D307

D308

D401

D512

D602

D609 EX0164GE (12V)

D635

D611

D903

D804

D801

D802

D803

D405

D407

D408

D412

D613

D04

D03

D02

D10

D11

D12

D13

J403 JAKE0056GE AUDIO IN

J402 JAKE0053GE VIDEO IN

TP201

TP203 QLUGP0105CEZZ

TP206 QLUGP0105CEZZ

TP403

TP404

SUB-COLOUR

SUB-CONT

SERVICE SW

S401 SW-B0015CE

115V

(AFT MUTE)

(AFT)

(JA)

(JB)

(JC)

(J131)

(J1)

(J3)

R-Y

B-Y

G-Y

UNI-COL

BRI COL CONT

APC DET

ACC/KILLER DET

VCO

÷ 45°

PAL SW

PAL DEMO

PAL/NTSC SW

IC DAT

E-F

AFC-2

AFC-1

HOR PREDRIVER

VTR SW

BURST GATE

HOR COUNT DOWN

COINCID.DAT

HOR OSC

1st B.P.A

2nd B.P.A

BRIGHT

Y AMP

HOR BLK

PEDESTAL CLAMP

CONTRAST

VERT COUNT DOWN

EQ.ELIMINATE

VERT DRIVE

RAMP GENE

VIDEO TONE

50/60 SW

H.V SYNC SEP.

VT

BU

BAND1

BAND2

DUNTK7062DE01 SECAM UNIT

(SC) GND VIDEO IN +12V GATE P/N KILLER CROMA OUT PAL CROMA IN CONTROL COL IH IN DL COLOUR PAL KILLER1 SECAM KILLER2 (SD)

(O) 5V GND R/C INT 12V BRIGH COL CONT GO J3 J2 J1 J0 L0 E3 E2 E1 POWER GND ST (MA)

(AA)

IC1002 IX0933CE (PSLDM3647CEZZ)

IC1003 M58659P

IC1006 UPC78L05

IC1005 IX0249CE

IC1010 PST5 04 29

IC501 IX0640CE (BZ3049GEFD)

IC801 IX0713CEN1

IC701 IX1148CE (PRDAR1352CEFW)

Q1002 2SC383

Q1009 2SC3198-G

Q1003 2SC3198-G

Q1004 2SC3198-G

Q1005 2SC3198-G

Q1006 2SC3198-G

Q1007 2SC3198-G

Q1010 2SC3198-G

Q1008 2SC3198-G

Q1013 2SC3198-G

Q502 2SC3198-G

Q501 2SC319 8-G

Q606 2SC2236(Y)

Q614 2SC340 2

Q610 2SC3198-G

Q801 2SC3198-G

Q402 2SA12 66 (Y)

Q603 2SA1266(Y)

Q607 2SA126 6(Y)

Q608 2SC3198-G

Q613 2SC3198-G

Q601 2SC2456

Q602 (K0029CEFW) 2SD1554 (R5099CE)

Q304 2SC2236(Y)

Q701 2SC3279

Q702 2SC3279

D1011 D1016 D1022 D1026 D1030 D1031 D1032 D1034 D1101 D1110 D1111 D1020

D1004 D1005 D1009 D1010 D1031-4 EX0379GE

D1033 D1008 DX0127CE D1050 D1051 D1052 D1053 D1054 D1055 D1056 D1057 D1058 D1059 D1060 D1061 D1062 D1063 D1064

D501 DX0279CE D502 DX0127CE D503 EX0048CE (6.2V) D504 D505 (12V) EX0022TA D509 EX0164GE (12V) D602 D603 DX0073CE D604 DX0279CE D605 D606 D607 EX0182GE (22V) D608 DX0123CE D609 EX0164GE (12V) D610 D611 D612 D613 D614 D615 DX0179CE D616 D617 D618 D619 D620 D621 D622 D623 D624 D625 D626 D627 D628 D629 D630 D631 D632 D633 DX0127CE D634 D635 D636 D637 D638 D639 D640 D641 D642 D643 D644 D645 D646 D647 D648 D649 D650 D651 D652 D653 D654 D655 D656 D657 D658 D659 D660 D661 D662 D663 D664 D665 D666 D667 D668 D669 D670 D671 D672 D673 D674 D675 D676 D677 D678 D679 D680 D681 D682 D683 D684 D685 D686 D687 D688 D689 D690 D691 D692 D693 D694 D695 D696 D697 D698 D699 D700 D701-4 DX0055TA X4 D702 D703 D704 D705 DX0027CE D706 D707 DX0130CE D708 DX0131CE D709 DX022 6CE D710 DX0164CE D711 D712 DX0130CE D713 DX0130CE

R436 4.7K R435 4.7K R411 33K R1020 .1 (ML) R1027 680K R1026 33K C1019 .1 (ML) R1025 33K R1024 15K R1022 12K C1016 100P R1023 12K C1017 100P C1018 10µ (50V) R1032 12K (2W) (VV) L1002 12µH (DF) R1045 15K R1047 27K C1041 1µ (50V) D1011 R1046 27K R1048 5.6K C1052 .01(Z) R1090 47K (1/4W) R1089 47K R1033 33K R1092 10K R1093 220 R1099 470 (1/4W) (RU) (J807) R1034 470 C1024 3.3µ (50V) C1030 820P R1035 820 (1/4W) R1071 15K R1070 15K C1036 33P R1036 270 R1037 1.8K C1025 4.7µ (50V) R1038 270 R1039 1.8K C1037 33P

R1054 10K L1005 100µH (DF) C1043 47µ (16V) (AGA) R1050 47K R1049 4.7K C1029 1(Z) C1041 1µ (50V) R1015 33K R1014 1K C1052 .01(Z) C10 .47µ (50V) R1072 1.5K R1016 10K R1017 10K(B) M7135TA TH1001 SIGN C1014 15P (CH) HZ0006CE C1013 39P(CH) R1018 10K R1108 3.3K C1061 .039 (ML) R1065 1K R1066 1K C1031 47µ (16V) (AGA) L1004 100µH (DF) C106 220 C1023 .001 R1093 220 R1034 470 C1024 3.3µ (50V) C1030 820P R1035 820 (1/4W) R1038 270 R1039 1.8K C1037 33P D1022

R1057 2.7K (BAND1) (BAND2) (AFT MUTE) R1055 8.2K R1056 8.2K R105 2.7K R1068 680 R1044 3.3K C1051 100P CF1001 FILCO091GE R1060 1K (1/2W) R1063 560 (1/2W) R1064 560 (1/2W) R1059 1.8K (1/2W) R100 680 (9) R100 680 (8) R100 680 (7) R100 680 (6) R100 680 (5) R100 680 (4) R100 680 (3) R100 680 (2) R100 680 (1)

R1074 15K L1001 100µH (DF) R1073 3.3K R678 2.2 (1/2W) R1052 5.6K R1051 5.6K R1053 5.6K

C1026 4.7µ (50V) R643 390 (1/2W) R652 18 (1W) C631 100µ (16V) (AGA) C632 10µ (25V) (AGA) R641 6.8K (1/2W) C901 .22µ(T) (50V) C407 .01(Z) R904 3.3K R682 10K R679 100K (/4W) R680 10K (1/4W) R557 56K C650 270P R822 5.6K (1/4W) R821 56K R827 220K R451 1K D402 D408 R443 150 R615 4.7K R616 10K C629 680P R617 10K(B) M46266E H-CENT R444 220K D620 R414 4.7K D619 R639 5.6K R601 100 C626 10µ(AGA) (16V) R661 1.8M(1/4W) C603 .018 (ML) R602 4.7K C604 330µ (16V)(AGA) C607 .47 (ML) CF601 A0020CE C605 .022 (ML) R604 680K R638 5.6K R603 270 C625 820P C501 2.2µ (50V) (EU) R458 220K C606 1µ (50V) C624 820P R460 47K(B) M46306E R644 4.7K R645 82K (1/2W) D634 R623 680K (1/4W) R624 270K D613 R605 470 R606 120K C425 .01 (16V) (AX) D409 R457 100 D410 R456 IK

R530 47K R531 47K R502 10K D503 EX0048CE (6.2V) R1051 5.6K R1052 5.6K

R514 33K R506 68 (1/4W) C509 4.7µ (25V) (EU) R509 220(B) M4616GE R507 10K(B) M4626GE R538 22K R511 2.2 (1/2W) R562 220(1/4W) C518 470P C534 1µ (50V) (NP) R559 2.7K R558 10K C53 3.3µ (35V) R561 1.5K (1/2W) C503 .0022 (ML) R537 33K C506 1000µ (25V) (AGA) R505 3.3K C504 20P R517 3.3K (/2W) R515 22 (1/4W) R-XZ0035TA R516 680 (1/2W) R520 2.2K (1/2W) R518 1.2K (1/2W) R525 150K C514 .22µ(T) (50V) L601 CILZ0521CE C628 220P (500V) R642 2.2K (1/2W) C614 .1 (MT200V) C613 .33 (MT200V) R622 22K (1/2W) C619 10µ (100V) (AGA) R621 2.2 (1W) (RV) D604 DX0279CE D605 D606 D607 EX0182GE (22V) D608 DX0123CE R632 10K R633 82 (1/2W) R618 1K(SU) (1/2W) R619 27K (1/4W) C617 .1 (ML200V) D603 DX0073CE L603 10µH (CF) TP601 TP602 R620 22 (1/4W) R-XZ0035TA

R1012 3.3 (1/2W) R-XZ0029CE D731 EX0152CE FB731 LN-0037CE C731 100µ (160V) (AAH) R612 56 (1/2W) VRG-RF2HB560J R613 22 (1/2W) L602 CILP0088CE FB603 BLN-0037CE R731 1 (1/2W) R-XZ0016CE R736 3.3 (1/2W) R-XZ0029CE C511 .001 (500V) D502 DX0127CE R311 (1/2W) R-XZ0016CE L303 3.3µH (CF) L731 3.3µH (CF) L732 3.3µH (CF) R312 2.7 (2W) (VV) C1050 .001 (500V) C100 10µ (50V) R737 12K (3W) (SV) R738 OK W) V) R303 1K(1/2W) C317 .001 (500V) C318 330µ (25V) R1041 680 (1/2W) R4 15 K R827 220K R822 5.6K (1/4W) R821 56K C650 270P R680 10K (1/4W) R557 56K R1032 12K (2W) (VV) R1033 33K R1092 10K R1093 220 R1071 15K R1070 15K R1036 270 R1037 1.8K R1038 270 R1039 1.8K R1034 470 R1035 820 (1/4W) C1024 3.3µ (50V) C1030 820P C1025 4.7µ (50V) C1036 33P C1037 33P D1022 R1099 470 (1/4W) (RU) (J807) C1052 .01(Z) R1048 5.6K R1045 15K R1047 27K C1041 1µ (50V) D1011 R1046 27K R1090 47K (1/4W) R1089 47K C1023 .001 D1016 C106 220 R1108 3.3K R1018 10K R1017 10K(B) M7135TA TH1001 SIGN C1014 15P (CH) HZ0006CE C1013 39P(CH) C1061 .039 (ML) R1065 1K R1066 1K C1031 47µ (16V) (AGA) L1004 100µH (DF) R1016 10K R1072 1.5K C1029 1(Z) C1041 1µ (50V) R1015 33K R1014 1K C1052 .01(Z) C10 .47µ (50V) R1048 5.6K R1046 27K D1011 R1045 15K R1047 27K

R1057 2.7K R1055 8.2K R1056 8.2K R105 2.7K R1068 680 R1044 3.3K C1051 100P CF1001 FILCO091GE R1060 1K (1/2W) R1063 560 (1/2W) R1064 560 (1/2W) R1059 1.8K (1/2W) R100 680 (9) R100 680 (8) R100 680 (7) R100 680 (6) R100 680 (5) R100 680 (4) R100 680 (3) R100 680 (2) R100 680 (1)

R1074 15K L1001 100µH (DF) R1073 3.3K R678 2.2 (1/2W) R1052 5.6K R1051 5.6K R1053 5.6K

C1026 4.7µ (50V) R643 390 (1/2W) R652 18 (1W) C631 100µ (16V) (AGA) C632 10µ (25V) (AGA) R641 6.8K (1/2W) C901 .22µ(T) (50V) C407 .01(Z) R904 3.3K R682 10K R679 100K (/4W) R680 10K (1/4W) R557 56K C650 270P R822 5.6K (1/4W) R821 56K R827 220K R451 1K D402 D408 R443 150 R615 4.7K R616 10K C629 680P R617 10K(B) M46266E H-CENT R444 220K D620 R414 4.7K D619 R639 5.6K R601 100 C626 10µ(AGA) (16V) R661 1.8M(1/4W) C603 .018 (ML) R602 4.7K C604 330µ (16V)(AGA) C607 .47 (ML) CF601 A0020CE C605 .022 (ML) R604 680K R638 5.6K R603 270 C625 820P C501 2.2µ (50V) (EU) R458 220K C606 1µ (50V) C624 820P R460 47K(B) M46306E R644 4.7K R645 82K (1/2W) D634 R623 680K (1/4W) R624 270K D613 R605 470 R606 120K C425 .01 (16V) (AX) D409 R457 100 D410 R456 IK

R530 47K R531 47K R502 10K D503 EX0048CE (6.2V) R1051 5.6K R1052 5.6K

R514 33K R506 68 (1/4W) C509 4.7µ (25V) (EU) R509 220(B) M4616GE R507 10K(B) M4626GE R538 22K R511 2.2 (1/2W) R562 220(1/4W) C518 470P C534 1µ (50V) (NP) R559 2.7K R558 10K C53 3.3µ (35V) R561 1.5K (1/2W) C503 .0022 (ML) R537 33K C506 1000µ (25V) (AGA) R505 3.3K C504 20P R517 3.3K (/2W) R515 22 (1/4W) R-XZ0035TA R516 680 (1/2W) R520 2.2K (1/2W) R518 1.2K (1/2W) R525 150K C514 .22µ(T) (50V) L601 CILZ0521CE C628 220P (500V) R642 2.2K (1/2W) C614 .1 (MT200V) C613 .33 (MT200V) R622 22K (1/2W) C619 10µ (100V) (AGA) R621 2.2 (1W) (RV) D604 DX0279CE D605 D606 D607 EX0182GE (22V) D608 DX0123CE R632 10K R633 82 (1/2W) R618 1K(SU) (1/2W) R619 27K (1/4W) C617 .1 (ML200V) D603 DX0073CE L603 10µH (CF) TP601 TP602 R620 22 (1/4W) R-XZ0035TA

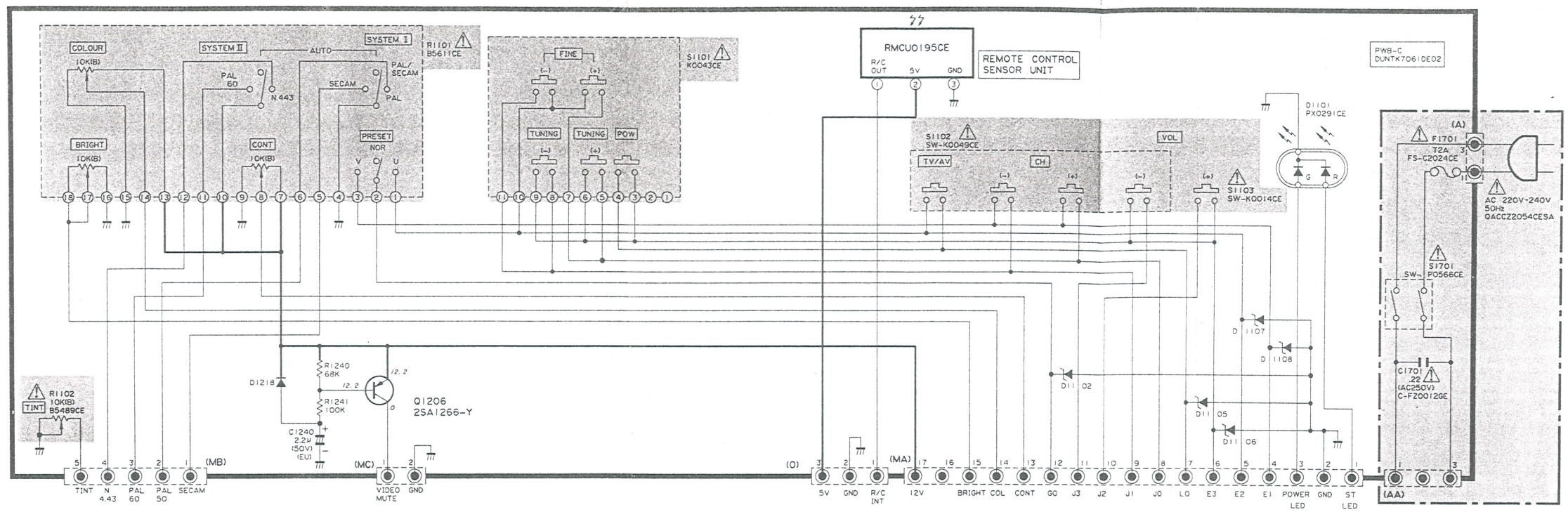
R1012 3.3 (1/2W) R-XZ0029CE D731 EX0152CE FB731 LN-0037CE C731 100µ (160V) (AAH) R612 56 (1/2W) VRG-RF2HB560J R613 22 (1/2W) L602 CILP0088CE FB603 BLN-0037CE R731 1 (1/2W) R-XZ0016CE R736 3.3 (1/2W) R-XZ0029CE C511 .001 (500V) D502 DX0127CE R311 (1/2W) R-XZ0016CE L303 3.3µH (CF) L731 3.3µH (CF) L732 3.3µH (CF) R312 2.7 (2W) (VV) C1050 .001 (500V) C100 10µ (50V) R737 12K (3W) (SV) R738 OK W) V) R303 1K(1/2W) C317 .001 (500V) C318 330µ (25V)

L1001 100µH (DF) R1074 15K Q1013 2SC3198-G R678 2.2 (1/2W) R1073 3.3K D733 DX0127CE C733 .001 (500V) C734 1000µ (35V) (AGA) L732 3.3µH (CF) R303 1K(1/2W) Q304 2SC2236(Y) C317 .001 (500V) C318 330µ (25V) R311 (1/2W) R-XZ0016CE L303 3.3µH (CF) L731 3.3µH (CF)

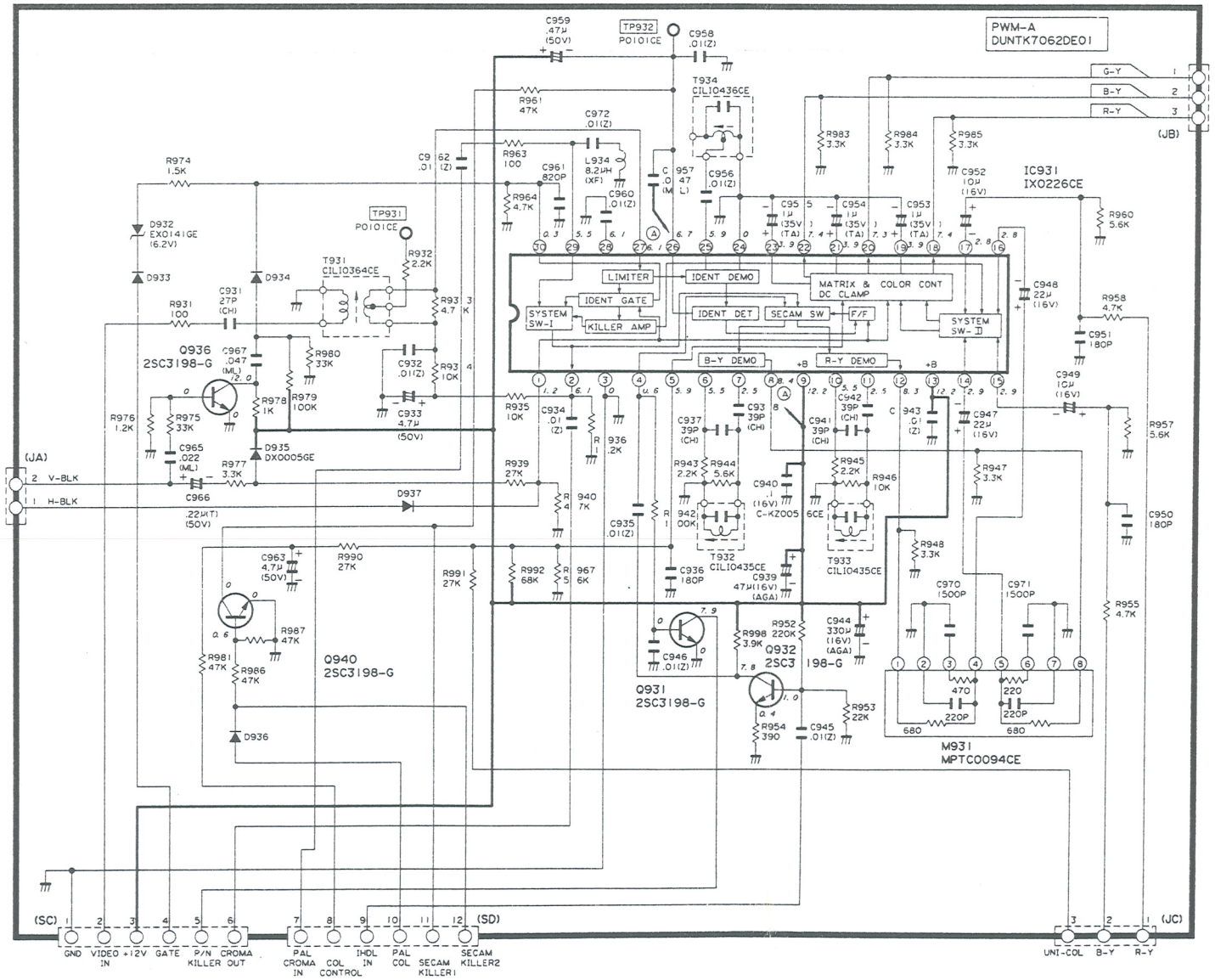
PR701 M PTP0047CE L702 CILF0105CE C708 .01 (AC250V) KZ0029CE ADG COIL CILG0252CE (G) R701 6.8 (7W) (KP) C702 .01 (AC250V) KZ0029CE D702 D701 C703 .01 (AC250V) KZ0029CE C705 .01 (AC250V) KZ0029CE D704 D703 C706 .01 (AC250V) KZ0029CE D701-4 DX0055TA X4 C707 150µ (400V) C-EZ0055CE D 709 6CE DX022 R709 2.7K (2W) (VV) C712 .001 (500V) L705 8.2µH (DF) FB703 0037CE BLN- C721 560P (2KV) R704 47 (1/2W) R-XZ0016CE C710 .033 (PF630V) R702 82K (3W) (5V) C717 .01 (AC250V) KZ0029CE D710 DX0164CE C709 560P (2KV) R705 2.7 (1/2W) R706 2.7 (1/2W) R707 2.2 (1/2W) FB702 BLN-0037CE C739 1000P (2KV) KZ0024C R742 680K (1/4W) R712 27K (1/2W) R711 27K (1/2W) FB704 BLN-0 010CE T701 TRNZ0479CE SOFT STARTOR COMMANDE ENTRAINEVR DETECTEUR R739 27K (1/2W) L706 270µH (CF) R710 10 (1/2W) R-XZ0017CE D708 DX0131CE R740 27K (1/2W) C716 47µ (63V)(AGA) C723 3.3µ (50V)(NP) C724 0056 (ML) R741 1K (1/2W) R713 270 (1W) (VV) R716 100 (1/2W) R715 33 (1/2W) D712 DX0130CE C740 270P R726 390 (1/4W) R735 47 (1/2W) C715 .015 (ML) C713 .01(Z) C719 4700P (2KV) KZ0023CE R727 560(G) (1/4W) R719 8.2M (1/2W) (UA) R728 1K (1/4W) Q701 2SC3279 Q702 2SC3279 R729 3.3 (1/4W) C720 4700P (2KV) KZ0023CE R720 8.2M (1/2W) (UA) R719/R720 VRC-UA2HG825K X2 R734 15K (1/4W) C738 150P C737 150P C722 560P D711 D705 DX0027CE D713 DX0130CE C718 560P (500V) L707 150µH CILP0050CE D707 DX0130CE

PWB-A DUNTK7060DE02

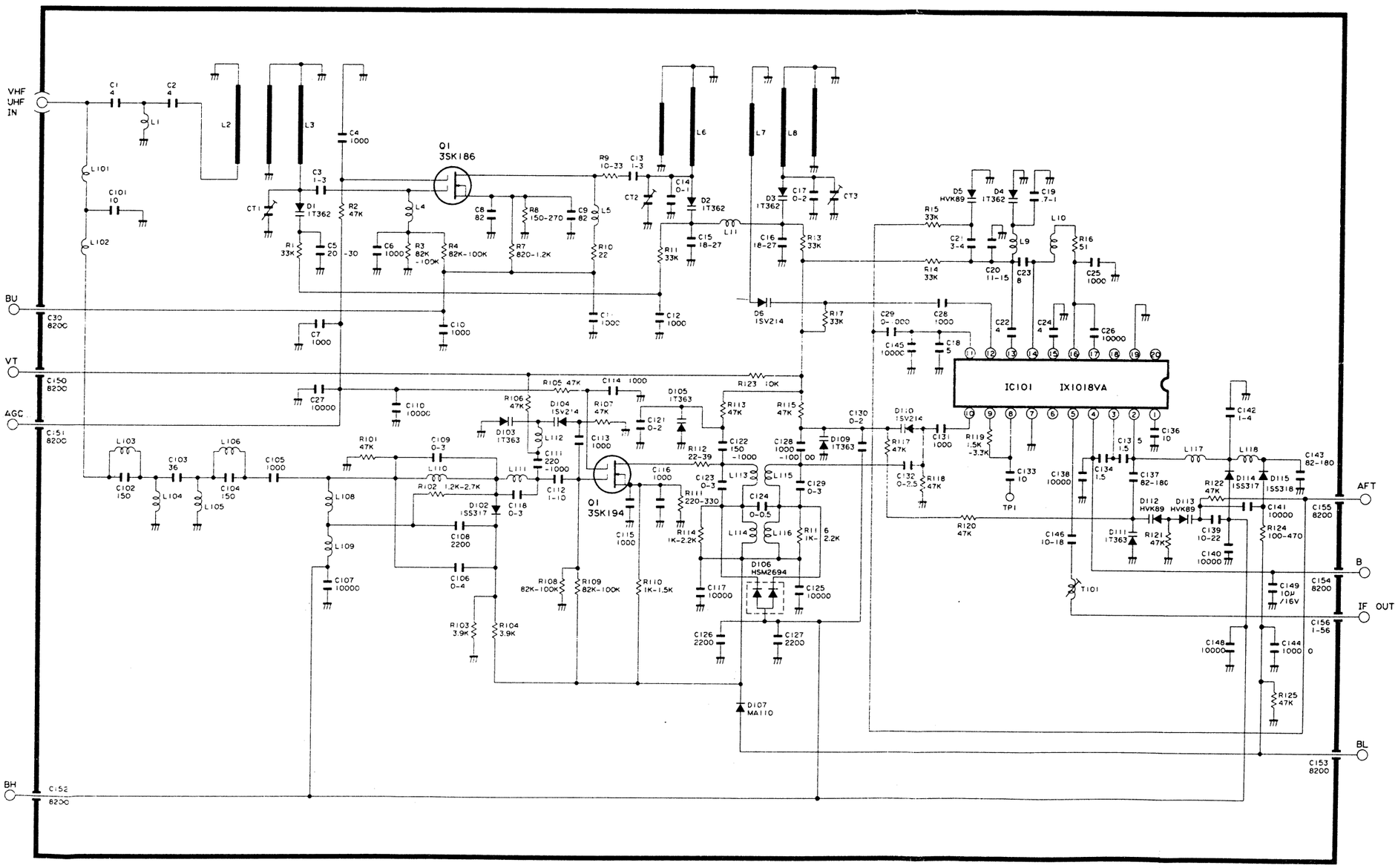
PWB-C
DUNTK7061DE02



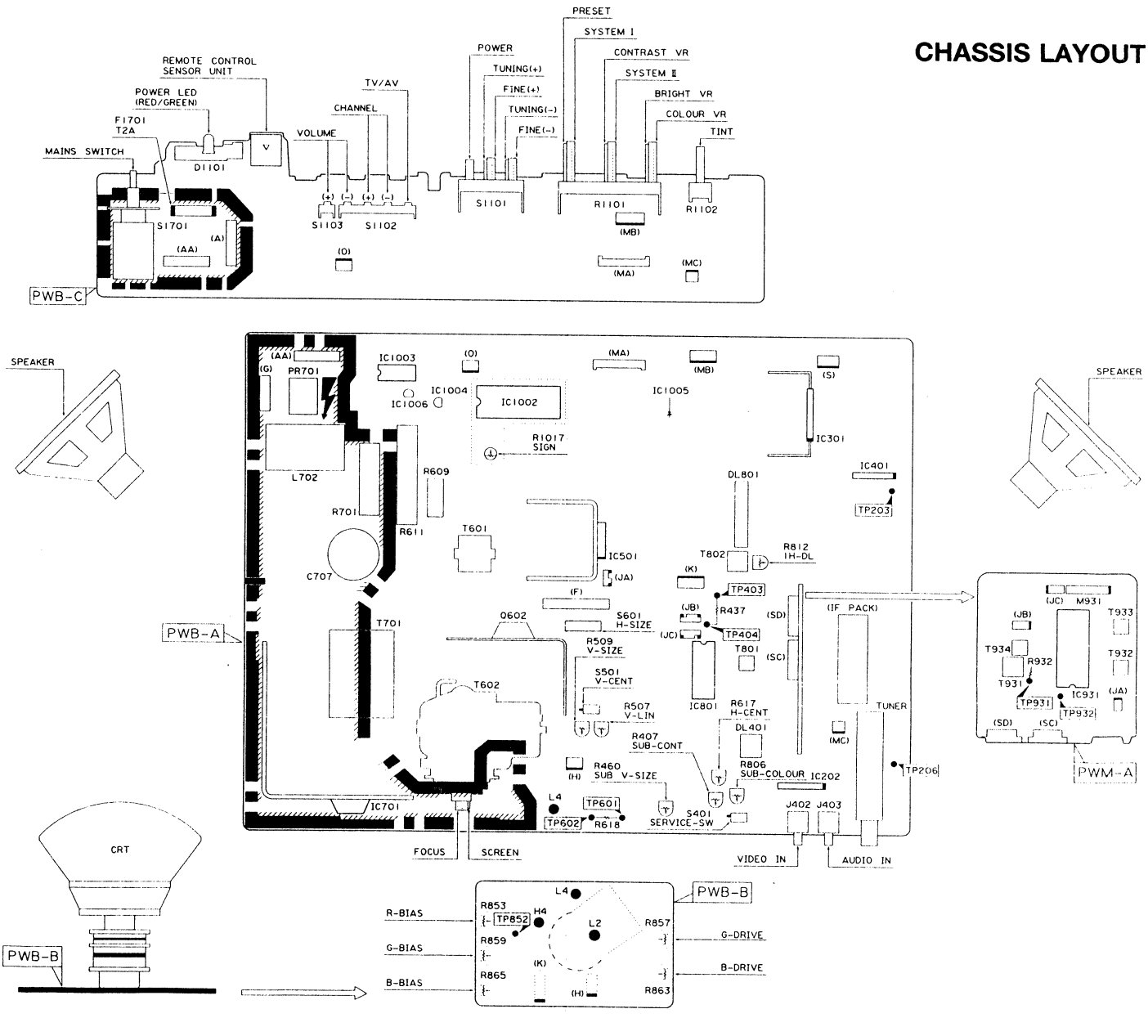
PWM-A
DUNTK7062DE01 (SECAM UNIT)



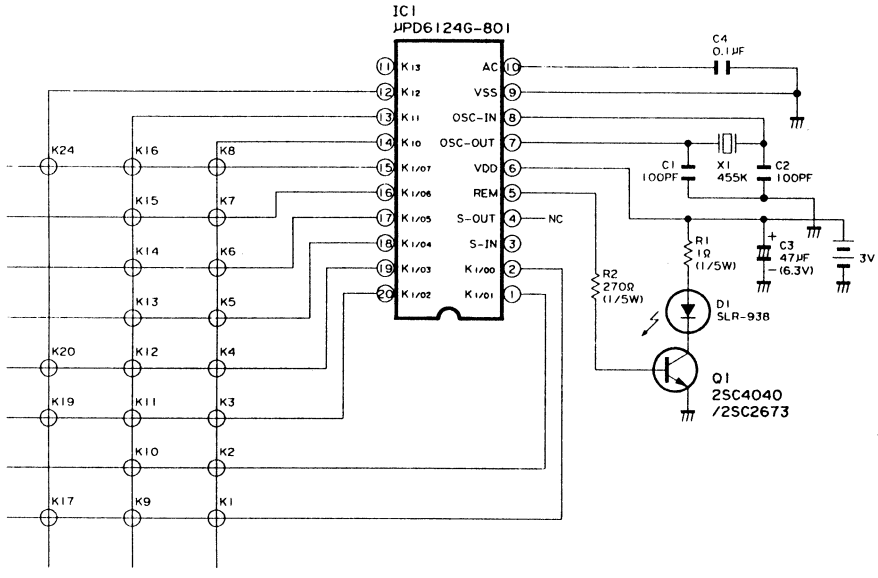
TUNER
VTUVTSS602///



CHASSIS LAYOUT

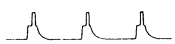
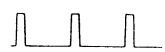
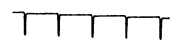
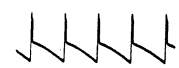
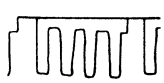


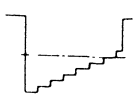
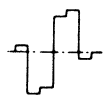
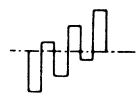
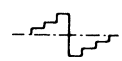
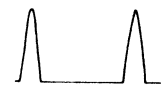
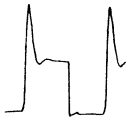
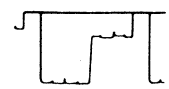
REMOTE CONTROL SCHEMATIC DIAGRAM (RRMCG0806CESA)



KEY NO	FUNCTION
K24	10 +
K20	CALL
K19	OFF TIMER
K17	MUTE
K16	POWER
K15	VOL ▼
K14	VOL ▲
K13	TV/VIDEO
K12	CH ▼
K11	CH ▲
K10	0
K9	9
K8	8
K7	7
K6	6
K5	5
K4	4
K3	3
K2	2
K1	1

WAVE FORMS

① 2.1 Vp-p (H)	② 0.54 Vp-p (H)	③ 0.18 Vp-p (H)	④ 0.22 Vp-p (H)	⑤ 0.52 Vp-p (H)
				
⑪ 11.8 Vp-p (H)	⑫ 1.2 Vp-p (V)	⑬ 13.6 Vp-p (H)	⑭ 1.0 Vp-p (V)	⑮ 45 Vp-p (V)
				
㉑ 104 Vp-p (H)				

				
⑥ 4.1 Vp-p (H)	⑦ 1.7 Vp-p (H)	⑧ 2.4 Vp-p (H)	⑨ 1.0 Vp-p (H)	⑩ 150 Vp-p (H)
				
⑯ 152 Vp-p (H)	⑰ 960 Vp-p (H)	⑱ 700 Vp-p (H)	⑲ 120 Vp-p (H)	⑳ 110Vp-p (H)

NOTES

Voltage Measurement Conditions

1. Voltage in parenthesis measured with no signal.
2. Voltage without parenthesis measured with 3000μV B&W or Colour Signal.
3. All the voltages in each point are measured with Vacuum Tube Volt Meter.

Waveform Measurement Conditions

1. Colour bar generator signal of 2.1V peak to peak applied at Base of Q202.
2. Approximately 4V AGC bias.

Parts marked with " ⚠ " (▬) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SERVICE PRECAUTION:

The area enclosed by this line (▬ ▪ ▬) is directly connected with AC Mains Voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.